


p92 Q13



$$F_T \text{ max} = 30 \text{ kg} \times 9.8 \frac{\text{N}}{\text{kg}}$$

$$F_g = 40 \text{ kg} \times 9.8$$

$$a = \frac{F_{\text{net}}}{m} = \frac{98 \text{ N}}{40 \text{ kg}} = \boxed{2.5 \text{ m/s}^2}$$

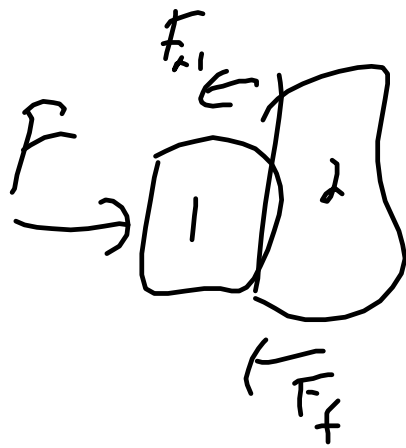
Pendulum

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$$T = 2\pi \sqrt{\frac{L}{g}}$$

$$L = \frac{g}{4\pi^2}$$



$$F \hat{=} \bar{F}_f$$

$$F_{12} - \bar{F}_{f2} \hat{=} m_a a$$